

Utah Water Assessment & Conditions Monitoring (Drought Webinar)

The meeting will begin shortly











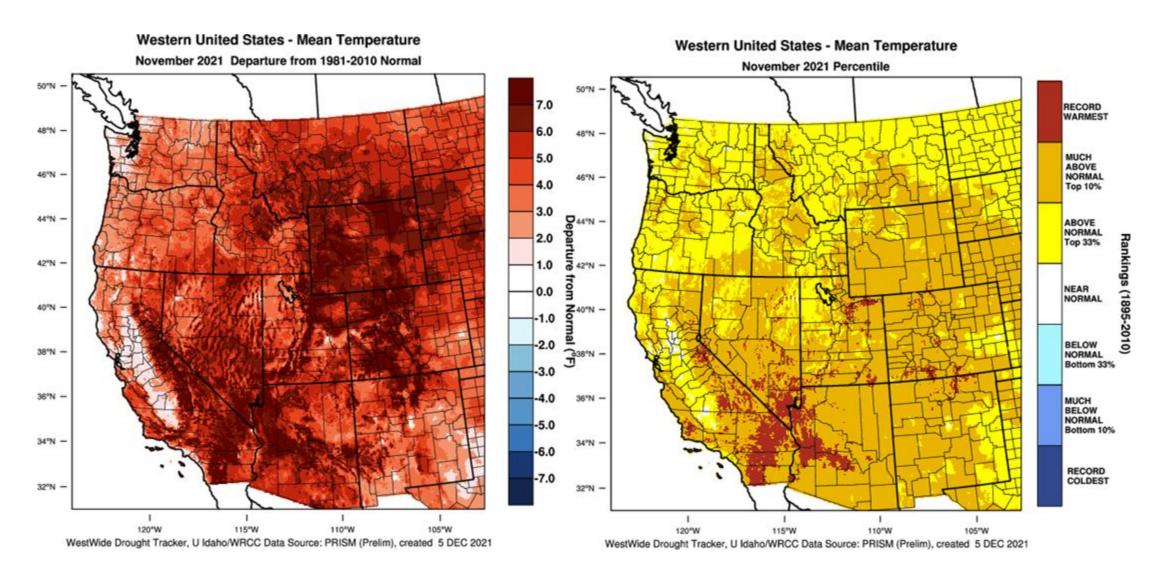




Utah Water Assessment & Conditions Monitoring Webinar

December 7, 2021

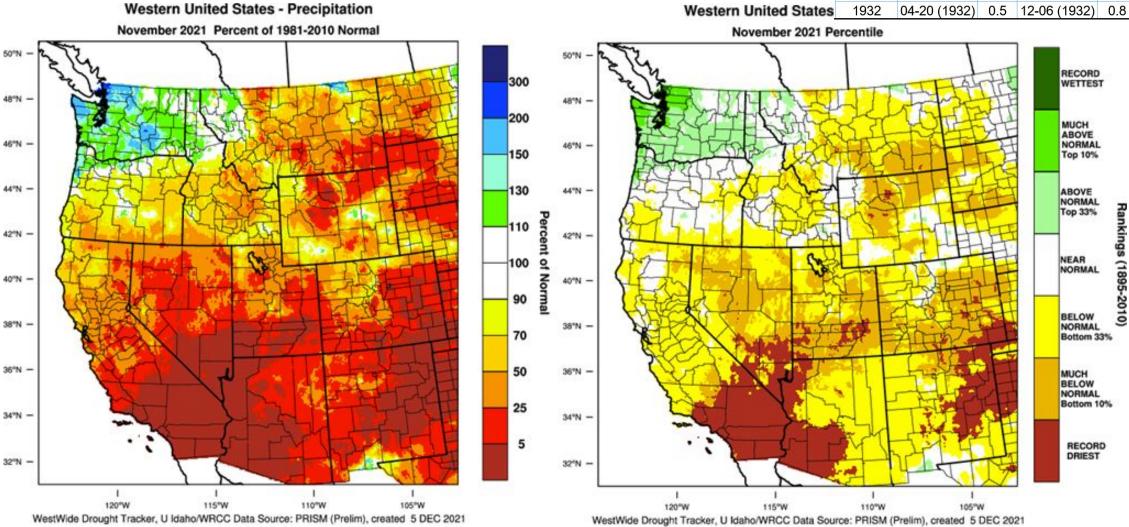
November Temperatures



Agency - Utah Climate Center Presenter - Jon Meyer

November Precipitation

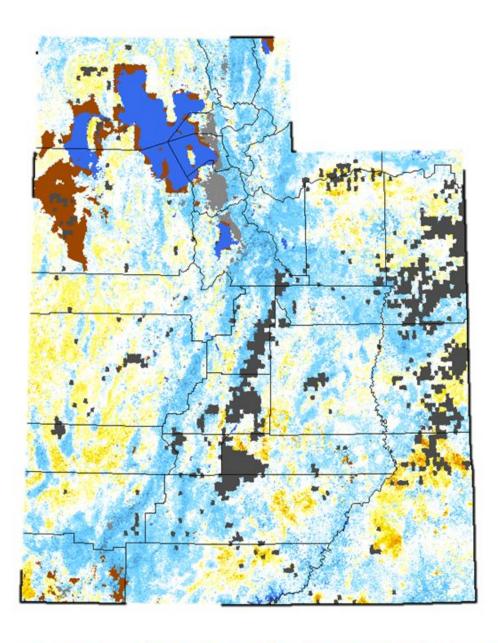
Year	Last	Value	First	Value	Difference
1943	03-20 (1943)	1.0	12-25 (1943)	5.9	279
1939	03-14 (1939)	0.2	12-25 (1939)	0.5	285
1937	05-05 (1937)	0.3	12-23 (1937)	1.0	231
1974	04-13 (1974)	1.6	12-07 (1974)	2.4	237
1932	04-20 (1932)	0.5	12-06 (1932)	0.8	229



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Quick-Dri + E





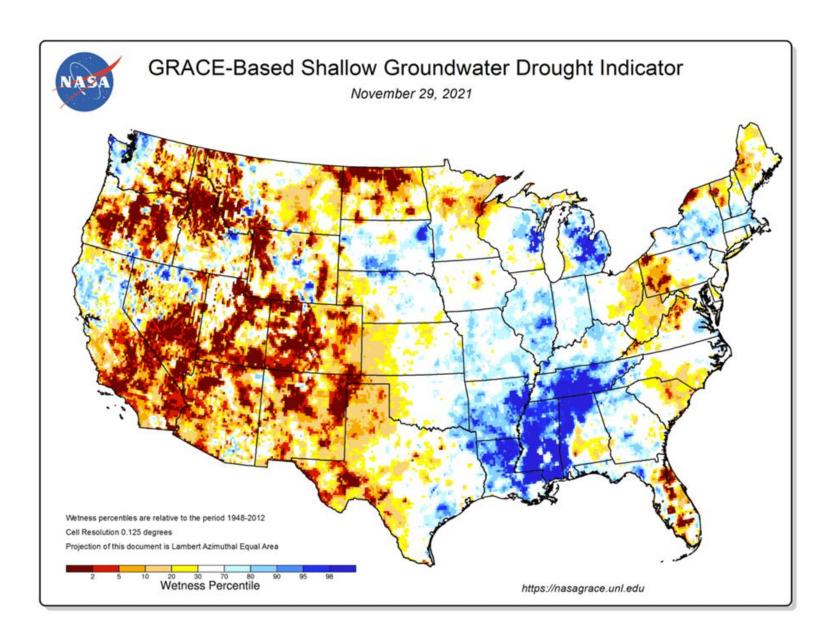
-week EDDI categories for November 30, 2021 102°W 112°W 110°W 104°W rought categories Wetness categories ED4 ED3 ED2 ED1 ED0 EW0 EW1 EW2 EW3 EW4 1% 98% 95% 90% 80% 70% 30% 20% 10% 5% 2% 0%

)DI-percentile category breaks: 100% = driest; 0% = wettest)

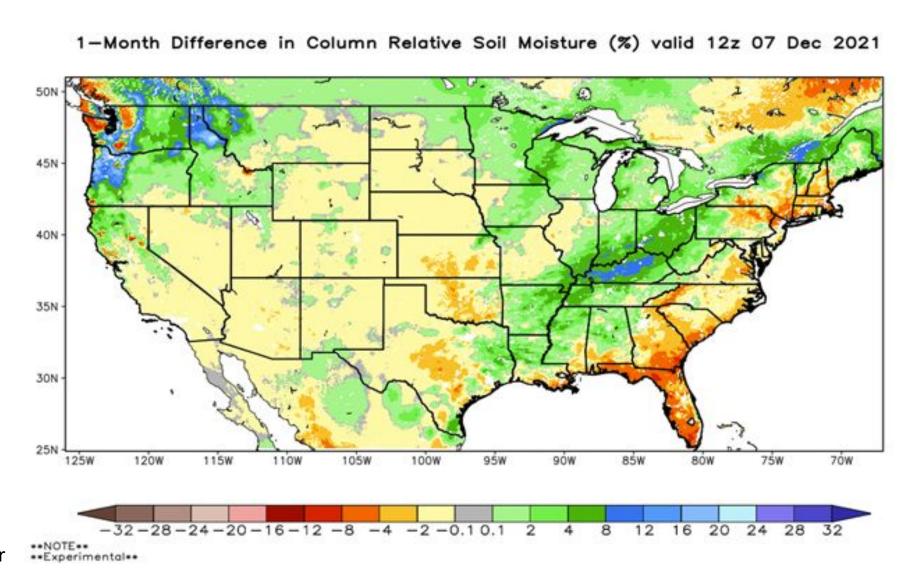
Generated by NOAA/ESRL/Physical Sciences Laboratory

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GRACE Soil moisture conditions

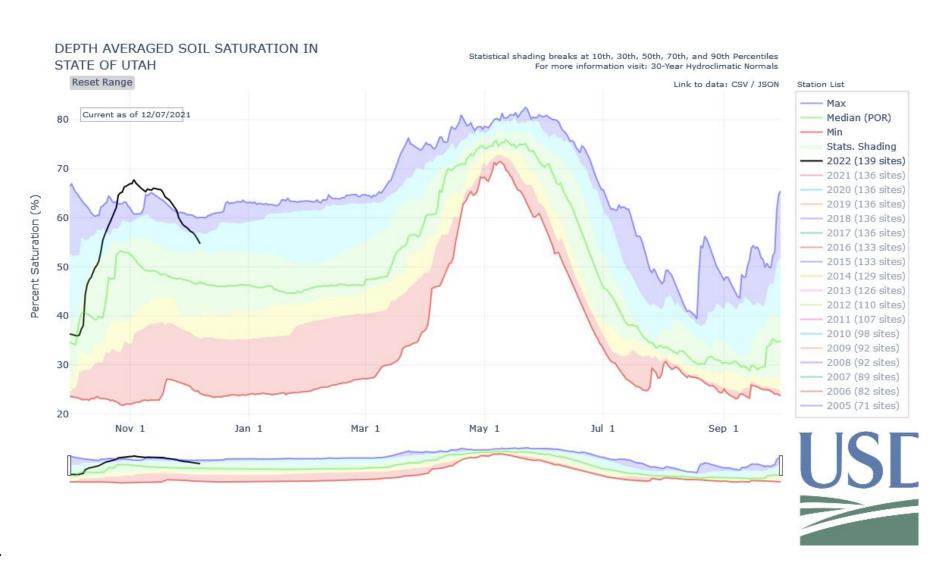


NASA SPORT Model 1-month soil moisture changes

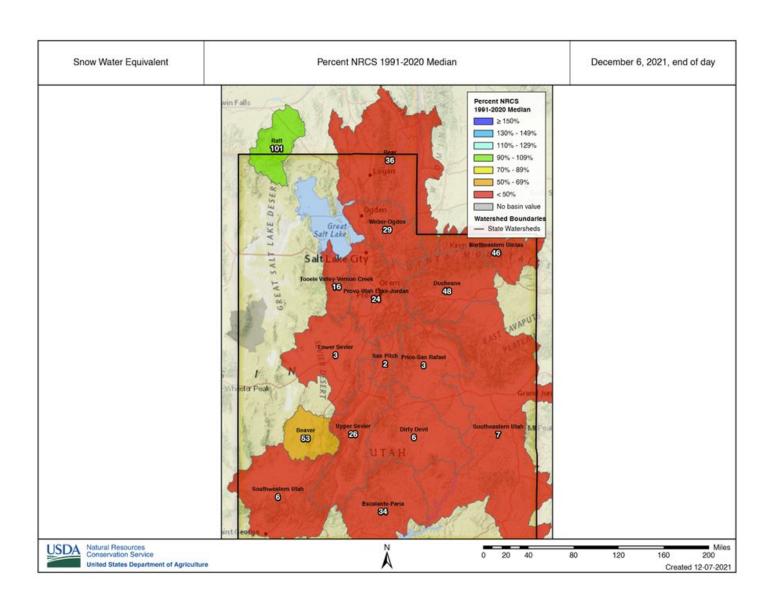


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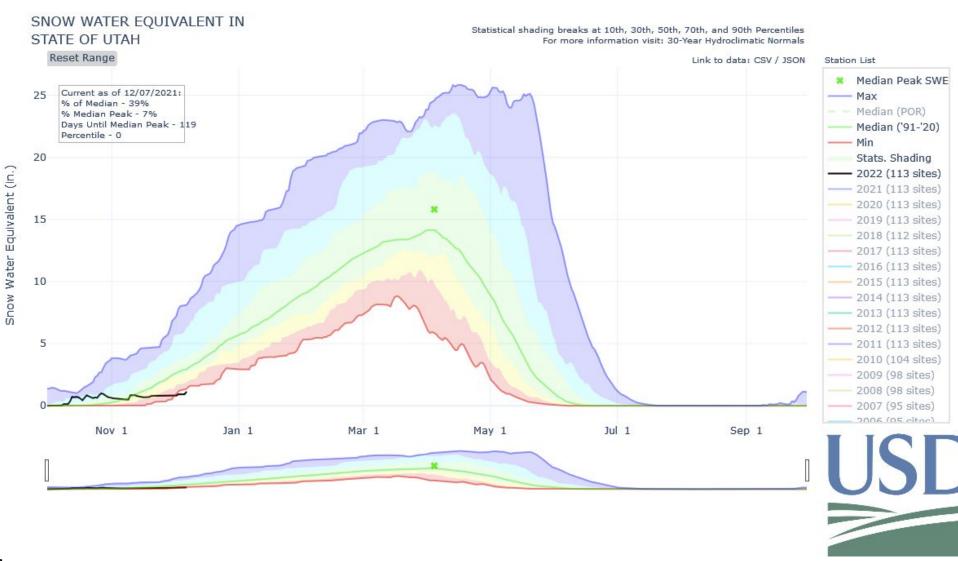
In-situ soil moisture conditions



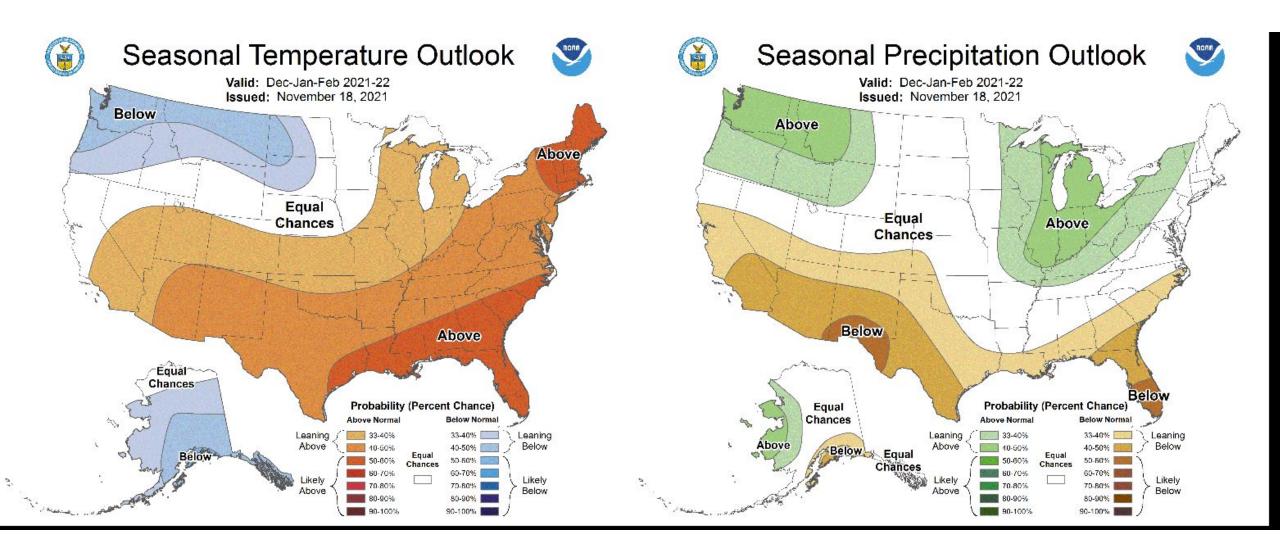
Basin Snowpack Conditions



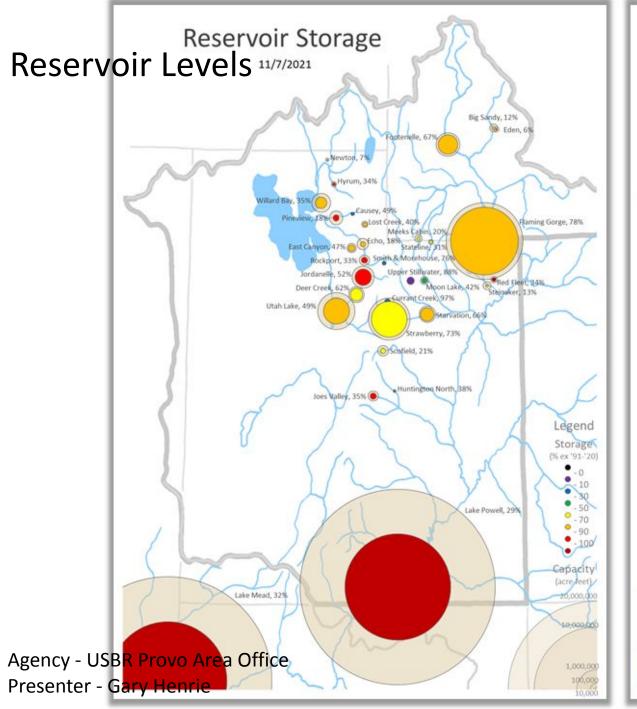
Snow Water Conditions

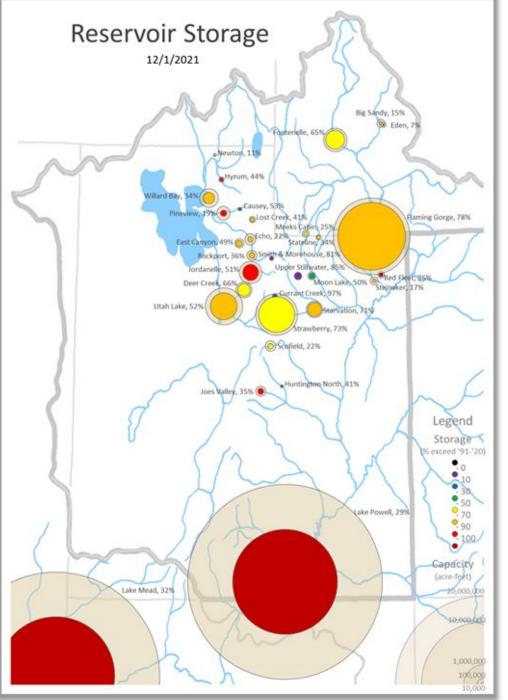


CPC 3-month Outlook



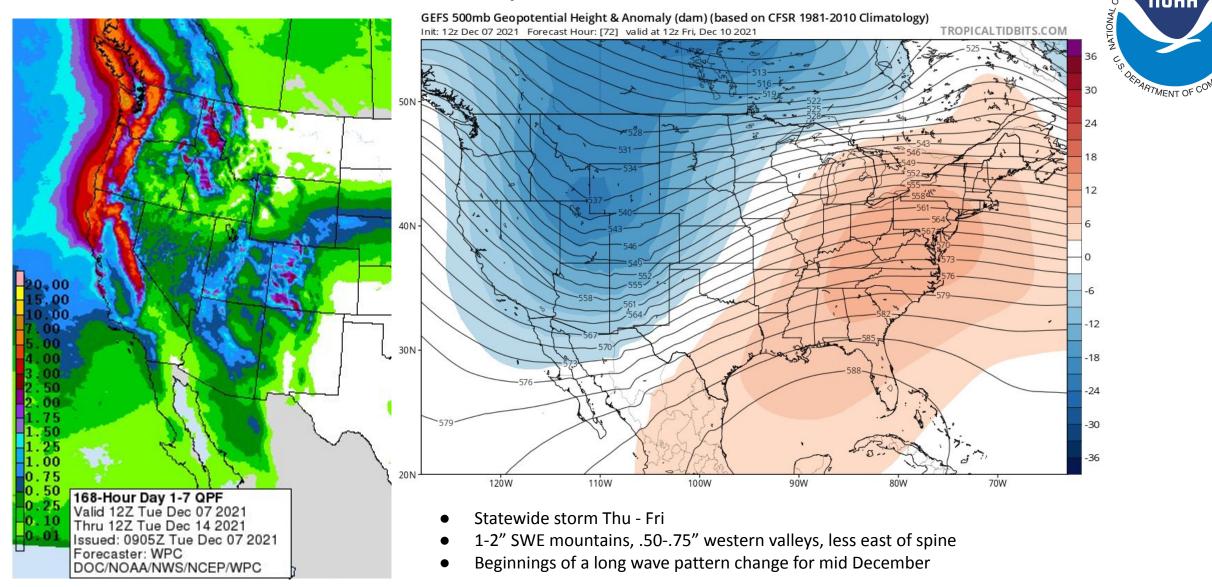
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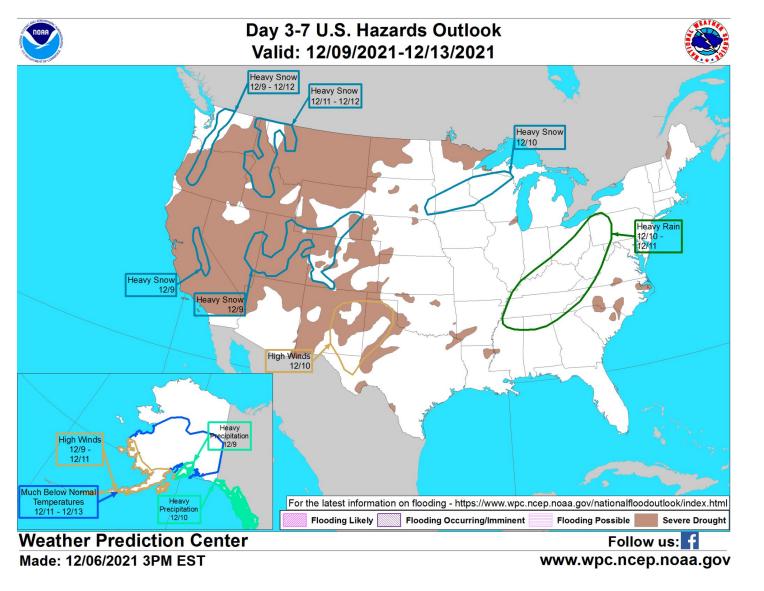
Weather Forecast Office Utah Day 1-7 Outlook



NOAA

Agency - National Weather Service Weather Forecast Office Presenter - Glen Merrill

Weather Prediction Center U.S. Day 3-7 Hazards Outlook



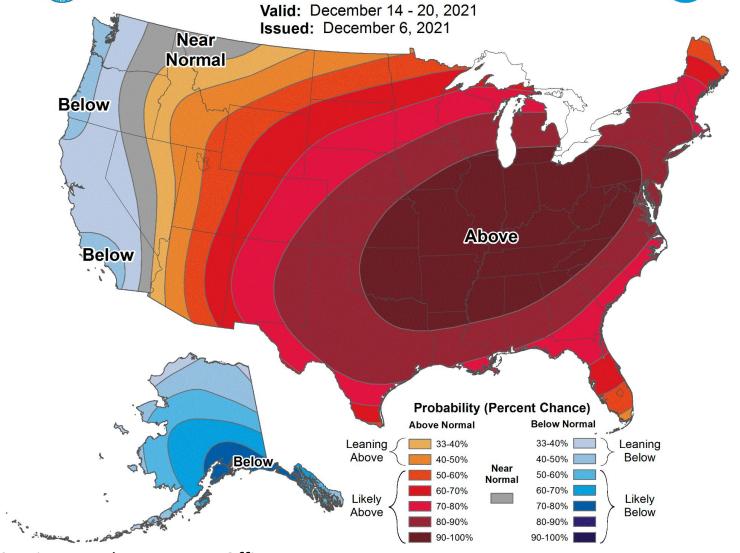


Agency - National Weather Service Weather Forecast Office Presenter - Glen Merrill

Climate Prediction Center 8 to 14 Day Outlooks - Temperature

👔 8-14 Day Temperature Outlook 💍

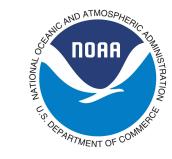


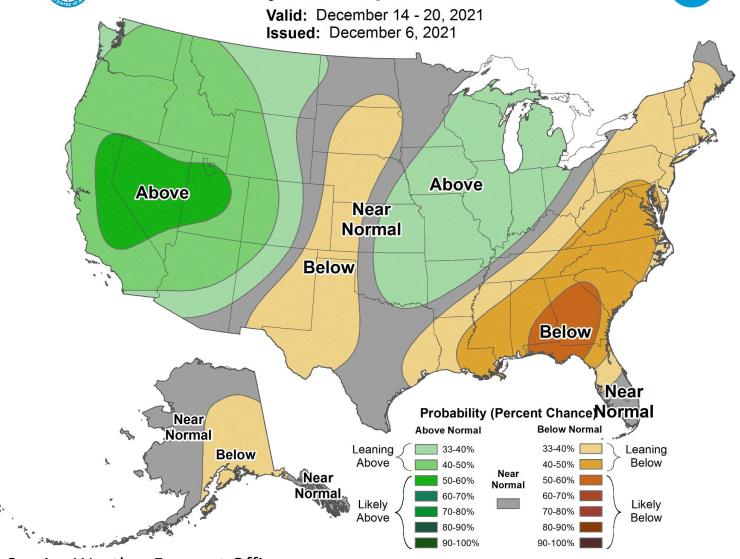


Agency - National Weather Service Weather Forecast Office Presenter - Glen Merrill

Climate Prediction Center 8 to 14 Day Outlooks - Precipitation

8-14 Day Precipitation Outlook

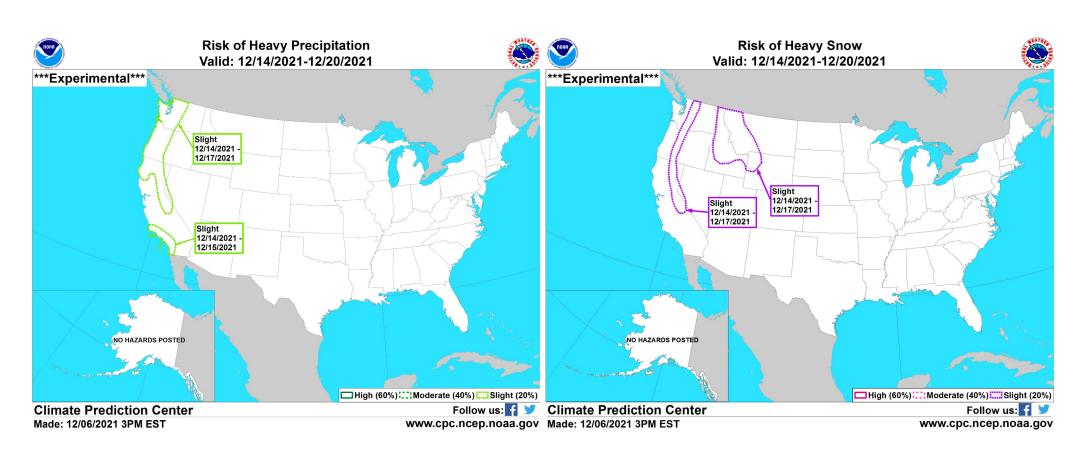




Agency - National Weather Service Weather Forecast Office Presenter - Glen Merrill

Climate Prediction Center U.S. Week-2 Hazards Outlook

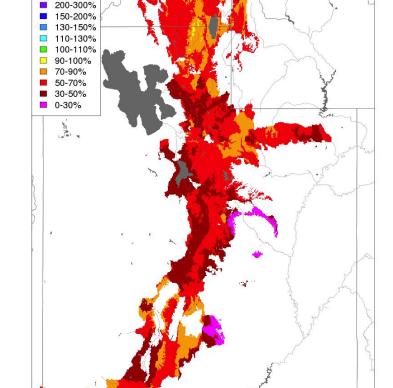




Agency - National Weather Service Weather Forecast Office Presenter - Glen Merrill

Water Supply Forecasts WY22 - Models Fall Soil Moisture Set Community Hydrologic Forecast System - DELFT FEWS NWS Model





Prepared by NOAA, Colorado Basin River Forecast Center Salt Lake City, Utah, www.cbrfc.noaa.gov

Soil Moisture - Fall - 2020 (November 15)

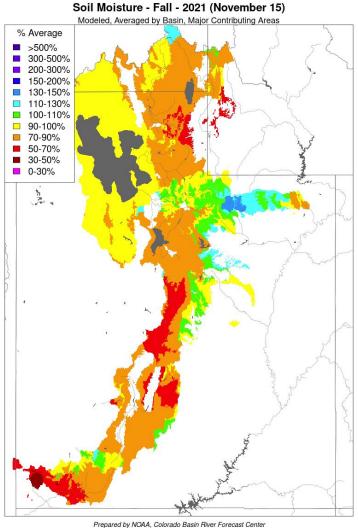
Modeled, Averaged by Basin, Major Contributing Areas

% Average

300-500%

>500%

2021

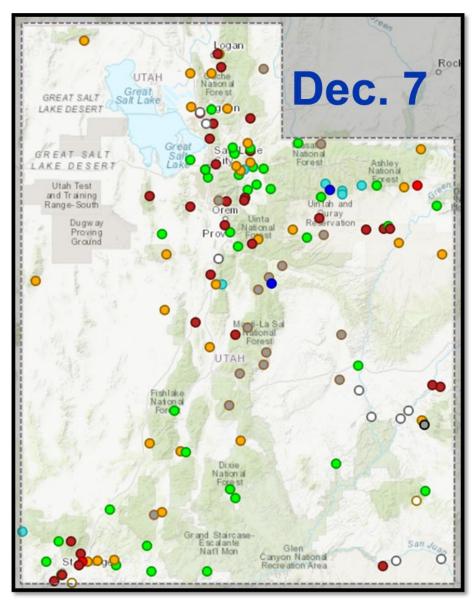


Prepared by NOAA, Colorado Basin River Forecast Cente Salt Lake City, Utah, www.cbrfc.noaa.gov

Agency - CBRFC
Presenter - Brent Bernard

2020

Current Streamflow Conditions



Agency - USGS Utah Water Science Center Presenter - Ryan Rowland

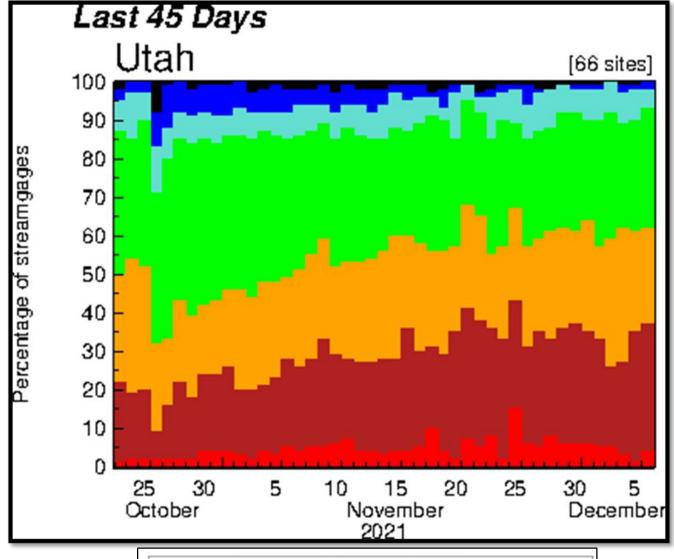
Day-of-Year Status	# Gages	% Gages
All-time high for this day-of-year	0	0.0%
Much above normal for this day-of-year	2	1.5%
Above normal for this day-of-year	7	5.1%
Normal for this day-of-year	39	28.5%
Below normal for this day-of-year	28	20.4%
Much below normal for this day-of-year	30	21.9%
All-time low for this day-of-year	3	2.2%
Not ranked - insufficient record	10	7.3%
Not ranked - no measurement	13	9.5%
Not ranked - stream not flowing	3	2.2%
Not ranked - no recent measurement	2	1.5%



☐ Sites must have at least 10 years of record to be ranked



Current Streamflow Conditions

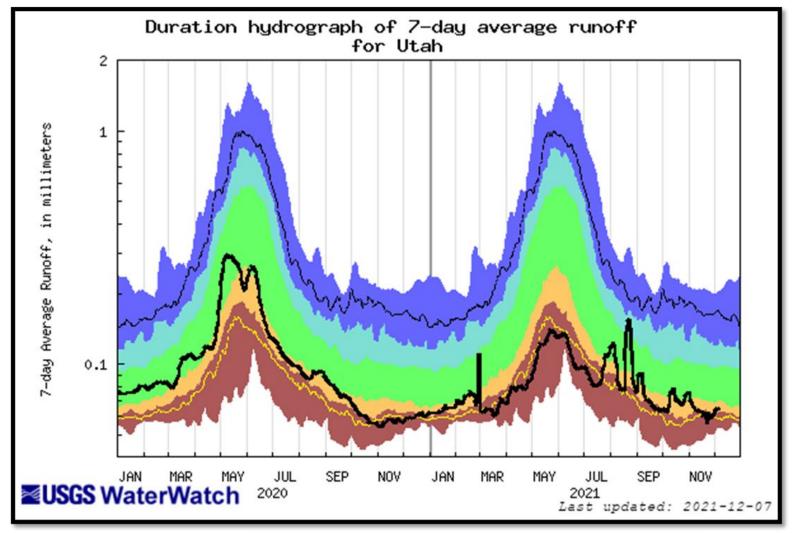


- Mean daily
 Streamflow
 compared to
 historical
 streamflow
 for the day of
 the year
- Sites must have at least 30 years of record to be ranked

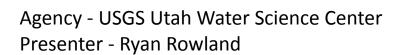
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7-Day Average Runoff for Utah

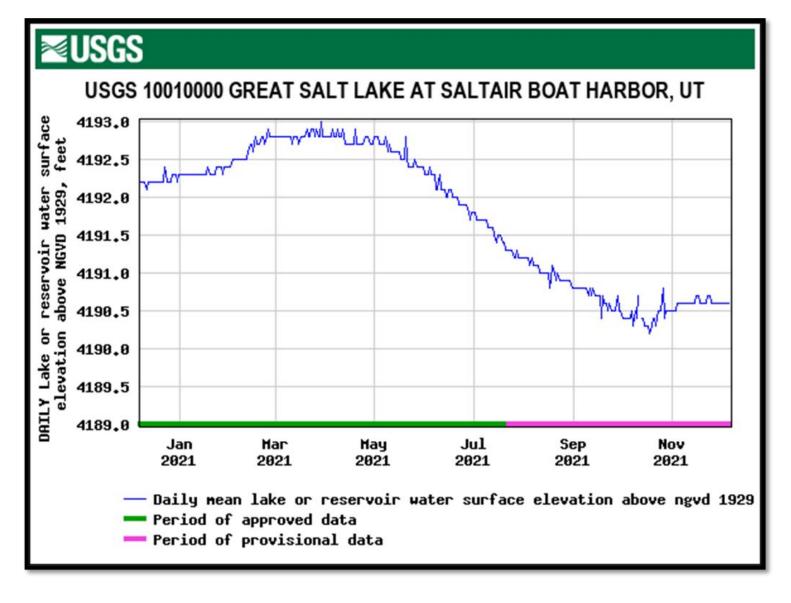


Explanation - Percentile classes											
							_				
lowest- 10th percentile	5	10-24	25-75	76-90	95	90th percentile -highest	Runoff				
Much below Normal		Below normal	Normal	Above normal	Much above normal						





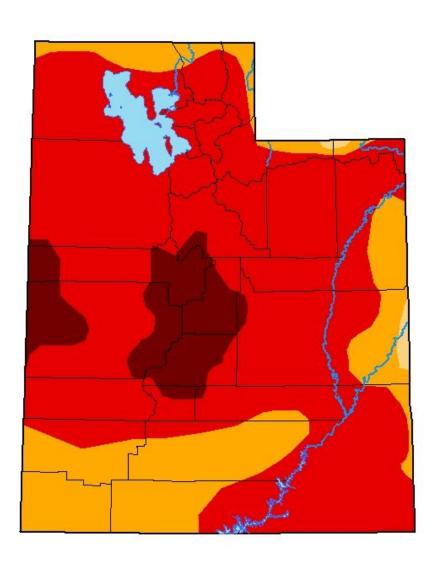
Great Salt Lake Water Surface Elevation



- Mean daily value 12/6/2021 = 4,190.6'
- □ 4,190.2'10/18/2021(potential new historic low)



U.S. Drought Monitor Utah



November 30, 2021

(Released Thursday, Dec. 2, 2021) Valid 7 a.m. EST

Intensity:

None

D0 Abnormally Dry

D1 Moderate Drought

D2 Severe Drought

D3 Extreme Drought

D4 Exceptional Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to https://droughtmonitor.unl.edu/About.aspx

Author:

Richard Heim NCEI/NOAA









droughtmonitor.unl.edu